What is claimed is:

1. A digital device provided with an operating system for executing in parallel a plurality of tasks each managed as one execution unit by program execution means, comprising:

5   task attribute information storage means for storing an attribute of an function which constitutes said task;

program execution means for transmitting information on an attribute of a function under execution, and for querying about execution of an abort to a task to which said function

10   belongs;

task execution determination means for determining whether or not the abort is executed based at least on the attribute of the function under execution responsive to the query from said program execution means on the execution of

15   the abort; and

task attribute recognition means for storing the attribute of the function currently under execution in said task attribute information storage means, based on the information on the attribute of the function transmitted from

20   said program execution means, and for returning the attribute of the function stored in said task attribute information storage means in response to a query from said task execution determination means about the attribute of the function currently under execution.

25   2. The digital device according to claim 1, wherein

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said information on the attribute of the function is a name of the function under execution, and

said task attribute recognition means determines the attribute of the function under execution based on the name.

5   3.   The digital device according to claim 1, wherein said task managed as one execution unit is a process.

4.   The digital device according to claim 1, wherein said task managed as one execution unit is a thread.

5.   A task management method for use in an operating system

10   for executing in parallel a plurality of tasks each managed as one execution unit, comprising the steps of:

storing an attribute of a function currently under execution, said function forming of said task; and

determining, upon abortion of said task to which said

15   function currently under execution belongs, whether or not said function currently under execution can be aborted, based on said stored attribute of said function.

6.   The task management method according to claim 5, wherein said attribute of said function is determined using

20   a name of said function currently under execution.

7.   The task management method according to claim 5, wherein said task managed as one execution unit is a process.

8.   The task management method according to claim 5, wherein said task managed as one execution unit is a thread.

25   9.   A program for causing a computer which executes in

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parallel a plurality of tasks each managed as one execution
unit using a program execution function to implement:

said program execution function for transmitting
information on an attribute of a function currently under
5   execution to a task attribute recognition function, and for
querying a task execution determination function about
execution of an abort to a task to which said function belongs;

a task execution determination function for determining
whether or not said abort is executed based at least on the
10   attribute of the function currently under execution responsive
to the query about the execution of the abort;

a task attribute recognition function for storing the
attribute of said function currently under execution in storage
means based on the information on the attribute of said function
15   transmitted from said program execution function, and for
returning the attribute of said function stored in said storage
means in response to a query about the attribute of said function
currently under execution from said task execution
determination function.

20   10. A computer readable recording medium having recorded
thereon a program for causing a computer which executes in
parallel a plurality of tasks each managed as one execution
unit using a program execution function to implement:

said program execution function for transmitting
25   information on an attribute of a function currently under

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execution to a task attribute recognition function, and for querying a task execution determination function about execution of an abort to a task to which said function belongs;

a task execution determination function for determining whether or not said abort is executed based at least on the attribute of the function currently under execution responsive to the query about the execution of the abort;

a task attribute recognition function for storing the attribute of said function currently under execution in storage means based on the information on the attribute of said function transmitted from said program execution function, and for returning the attribute of said function stored in said storage means in response to a query about the attribute of said function currently under execution from said task execution determination function.

11. A digital device provided with an operating system for executing in parallel a plurality of tasks each managed as one execution unit using program execution means, comprising:

task attribute information storage means for storing an attribute of said task;

said program execution means for transmitting information on the attribute of said task to task attribute recognition means, and for querying task attribute determination means about execution of an abort to said task;

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task execution determination means for determining whether or not said abort is executed based at least on the attribute of said task responsive to the query about the execution of the abort; and

5   task attribute recognition means for storing the attribute of said function currently under execution in said task attribute information storage means based on the information on the attribute of said function transmitted from said program execution function, and for returning the

10   attribute of said function stored in said task attribute storage means in response to a query about the attribute of said function currently under execution from said task execution determination means.

      12. A task management method in an operating system for

15   executing in parallel a plurality of tasks each managed as one execution unit, comprising the steps of:

      storing an attribute of said task currently under execution; and

      determining whether or not said task currently under

20   execution can be aborted based on the stored attribute of said task upon execution of an abort to said task.

      13. A program for causing a computer which executes in parallel a plurality of tasks each managed as one execution unit using a program execution function to implement:

25   said program execution function for transmitting

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information on an attribute of a task currently under execution, and for querying about execution of an abort to said task;

a task execution determination function for determining whether or not said abort is executed based at least on the attribute of said task currently under execution responsive to the query on the execution of the abort from said program execution function; and

a task attribute recognition function for storing the attribute of said task currently under execution in storage means based on the information on the attribute of said task transmitted from said program execution function, and for returning the attribute of said task stored in said storage means in response to a query about the attribute of said task currently under execution from said task execution determination function.

14. A computer readable recording medium having recorded thereon a program for causing a computer which executes in parallel a plurality of tasks each managed as one execution unit using a program execution function to implement:

said program execution function for transmitting information on an attribute of a task currently under execution, and for querying about execution of an abort to said task;

a task execution determination function for determining whether or not said abort is executed based at least on the attribute of said task currently under execution responsive

to the query on the execution of the abort from said program execution function; and

a task attribute recognition function for storing the attribute of said task currently under execution in storage means based on the information on the attribute of said task transmitted from said program execution function, and for returning the attribute of said task stored in said storage means in response to a query about the attribute of said task currently under execution from said task execution determination function.